

PCT09

## RAW SEQUENCE LISTING

DATE: 10/23/2001

PATENT APPLICATION: US/09/806,708A

TIME: 10:16:42

Input Set : A:\44137.txt

Output Set: N:\CRF3\10232001\I806708A.raw

3 <110> APPLICANT: The University of British Columbia  
 5 <120> TITLE OF INVENTION: Regulation of Embryonic Transcription in Plants  
 7 <130> FILE REFERENCE: 4810-58741  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/806,708A  
 C--> 10 <141> CURRENT FILING DATE: 2001-04-03  
 12 <150> PRIOR APPLICATION NUMBER: US 60/147,133  
 13 <151> PRIOR FILING DATE: 1999-08-04  
 15 <160> NUMBER OF SEQ ID NOS: 23  
 17 <170> SOFTWARE: PatentIn version 3.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 12  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Arabidopsis thaliana  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: misc\_signal  
 26 <222> LOCATION: (1)..(12)  
 27 <223> OTHER INFORMATION: CE3 element at 381-369 bp  
 30 <400> SEQUENCE: 1  
 31 acacattccc tc  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 12  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial sequence  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: misc\_signal  
 41 <222> LOCATION: (1)..(12)  
 42 <223> OTHER INFORMATION: consensus sequence  
 45 <400> SEQUENCE: 2  
 46 acqcggtgtcc tc  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 25  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Artificial sequence  
 54 <220> FEATURE:  
 W--> 55 <221> NAME/KEY: primer  
 56 <222> LOCATION: (1)..(25)  
 57 <223> OTHER INFORMATION: AtproFW  
 60 <400> SEQUENCE: 3  
 61 ctagttagatt ggttggttgg ttcc  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 27  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Artificial sequence  
 69 <220> FEATURE:  
 W--> 70 <221> NAME/KEY: primer  
 71 <222> LOCATION: (1)..(27)  
 72 <223> OTHER INFORMATION: AtproRV

ENTERED

12

12

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75 <400> SEQUENCE: 4
76 tgetctgttt gtgtcggaaa ataatgg 27
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 27
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial sequence
84 <220> FEATURE:
W--> 85 <221> NAME/KEY: primer
86 <222> LOCATION: (1)..(27)
87 <223> OTHER INFORMATION: AP1
90 <400> SEQUENCE: 5
91 ggatcctaatacgaactcact atagggc 27
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 25
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial sequence
99 <220> FEATURE:
W--> 100 <221> NAME/KEY: primer
101 <222> LOCATION: (1)..(25)
102 <223> OTHER INFORMATION: Bnwalk1
105 <400> SEQUENCE: 6
106 aaagagtggagcgatgggta tgagg 25
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 18
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:
W--> 115 <221> NAME/KEY: primer
116 <222> LOCATION: (1)..(18)
117 <223> OTHER INFORMATION: AP2
120 <400> SEQUENCE: 7
121 ctatagggctcgagcggc 18
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 25
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial sequence
129 <220> FEATURE:
W--> 130 <221> NAME/KEY: primer
131 <222> LOCATION: (1)..(25)
132 <223> OTHER INFORMATION: Bnwalk2
135 <400> SEQUENCE: 8
136 cggaaagaagcaaaggttga aaagg 25
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 24
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial sequence
144 <220> FEATURE:
W--> 145 <221> NAME/KEY: primer
146 <222> LOCATION: (1)..(24)

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147 <223> OTHER INFORMATION: Lawalk1
150 <400> SEQUENCE: 9
151 gatacgttttgt ggtaagacga gaggc 24
154 <210> SEQ ID NO: 10
155 <211> LENGTH: 24
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial sequence
159 <220> FEATURE:
W--> 160 <221> NAME/KEY: primer
161 <222> LOCATION: (1)..(24)
162 <223> OTHER INFORMATION: Lawalk2
165 <400> SEQUENCE: 10
166 gtcagtgaggga agaaacagag gttg 24
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 25
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial sequence
174 <220> FEATURE:
W--> 175 <221> NAME/KEY: primer
176 <222> LOCATION: (1)..(25)
177 <223> OTHER INFORMATION: BnproFW
180 <400> SEQUENCE: 11
181 ctgacttcac caaagaaaca actcg 25
184 <210> SEQ ID NO: 12
185 <211> LENGTH: 26
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial sequence
189 <220> FEATURE:
W--> 190 <221> NAME/KEY: primer
191 <222> LOCATION: (1)..(26)
192 <223> OTHER INFORMATION: BnproRV
195 <400> SEQUENCE: 12
196 cgggaattccg tttttttttt taggcg 26
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 23
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial sequence
204 <220> FEATURE:
W--> 205 <221> NAME/KEY: primer
206 <222> LOCATION: (1)..(23)
207 <223> OTHER INFORMATION: LaproFW
210 <400> SEQUENCE: 13
211 cagcttaacc ggtaaaattg gcc 23
214 <210> SEQ ID NO: 14
215 <211> LENGTH: 23
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial sequence
219 <220> FEATURE:
W--> 220 <221> NAME/KEY: primer

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221 <222> LOCATION: (1)..(23)
222 <223> OTHER INFORMATION: LaproRV
223 <400> SEQUENCE: 14
226 ttttcagttt tgtgtcggag agg 23
229 <210> SEQ ID NO: 15
230 <211> LENGTH: 393
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial sequence
234 <220> FEATURE:
235 <221> NAME/KEY: promoter
236 <222> LOCATION: (1)..(393)
237 <223> OTHER INFORMATION: transcriptional regulatory region
240 <400> SEQUENCE: 15
241 agatctaaga acacacattc cctcaaattt taatgcacat gtaatcatag tttagcacia 60
243 ttcaaaaaata atgtagtatt aaagacagaa atttgtagac ttttttttgg cgtaaaggga 120
245 aqactaagtt tatacgtaca ttttatttta agtggaaaac cgaaattttc catcgaaaata 180
247 tatgaattta gtatatatat ttctgcaatg tactattttg ctatttttggc aacttttcagt 240
249 ggaactactac tttattacaa tgtgtatgga tgcattgatt tgagtataca catgtctaaa 300
251 tgcattgcttt gcaaaacgta acggaccaca aaagaggatc catgcaaata catctcatag 360
253 ctctctccat tattttccga cacaacacaga gca 393
256 <210> SEQ ID NO: 16
257 <211> LENGTH: 900
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial sequence
261 <220> FEATURE:
262 <221> NAME/KEY: promoter
263 <222> LOCATION: (1)..(900)
264 <223> OTHER INFORMATION: transcriptional regulatory region
267 <400> SEQUENCE: 16
268 aaggettacc ctattagttg aaagttgaaa ctttgttccc tactcaattc ctagtttgtgt 60
270 aaatgtatgt atatgtaatg cgtataaaac gtagtactta aatgactagg agtggttcctt 120
272 qagaccgatg agagatggga gcagaactaa agatgatgac ataattaaga acgaatttga 180
274 aaggtcttta ggtttgaatc ctattcgaga atgtttttgt caaagatagt ggcgattttg 240
276 aaccaaagaa aacattttaa aaatcagtat ccggttacgt tcatgcaaat agaaaagtgg 300
278 ctaggatctg attgtaattt tagacttaaa gagtctctta agattcaatc ctggctgtgt 360
280 acaaaaactac aaataatata ttttagacta tttggcctta actaaacttc cactcattat 420
282 ttactgaggt tagagaatag acttgccaat aaacacattc ccgagaaata ctcatgatcc 480
284 tataattagt cagagggtat gccaatcaga tctaagaaca cacattccct caaattttaa 540
286 tgcacatgta atcatagttt agcacaattc aaaaataatg tagtattaaa gacagaaatt 600
288 tqttagacttt tttttggcgt taaaggaaga ctaagtttat acgtacattt tattttaagt 660
290 qgaaaaccga aattttccat cgaaatatat gaatttagta tatatatttc tgcaatgtac 720
292 tatttttgcta ttttggaac tttcagtggg ctactacttt attacaatgt gtatggatgc 780
294 atgagtttga gtataacat gtctaaatgc atgctttgca aaacgtaacg gaccacaaaa 840
296 qagqatccat gcaaatatcat ctcatagctt cctccattat tttccgacac aaacagagca 900
299 <210> SEQ ID NO: 17
300 <211> LENGTH: 1588
301 <212> TYPE: DNA
302 <213> ORGANISM: Artificial sequence
304 <220> FEATURE:

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395 <221> NAME/KEY: promoter
396 <222> LOCATION: (1)..(1588)
397 <223> OTHER INFORMATION: transcriptional regulatory region
398 <400> SEQUENCE: 17
311 ctgacttcac caaagaaaca actcgagtcg ttatccatct cctcataacc atcgctccac      60
313 tctttgcctt caccgttttc ggttcgggtt tetacatcgc aaccgcggcc aaaccgggtt      120
315 acctcgttga gtactcatgc taccttcac caacgcattg tagatcaagt atctccaagg      180
317 tcatggatat cttttatcaa gtaagaaaag ctgactcttc tcggaacggc acgtgcgatg      240
319 actcgtcgtg gcttgacttc ttgaggaaga ttcaagaacg ttcaggtcta ggcatgaaa      300
321 ctcaacggcc cgaggggctg cttcagggtc ctcacgggaa gacttttgcg gcggcgcgtg      360
323 aaagacggga gcaagttatc attggtgcgc tagaaaatct attcaagaac accaacgtta      420
325 acctaaaga tataggtata cttgtggtga actcaagcat gtttaatcca actccatcgc      480
327 tctcgcgat ggtcgttaac actttcaagc tccgaagcaa cgtaagaagc tttaaccttg      540
329 gtggcatggg ttgtagtgcg ggcgttatag ccattgatct agcaaaggac ttgttgcagt      600
331 tccataaaaa tacgtatgct cttgtggtga gcacagagaa catcacttat aacatttacg      660
333 ctggtgataa taggtccatg atggtttcaa attgcttggt cegtgttggt ggggccgcta      720
335 ttttgccttc caacaagcct ggagatcgta gacgggtcaa gtacgagcta gttcacacgg      780
337 ttggaacgca taccggagct gacgacaagt cttttcgttg cgtgcaacaa ggagacgatg      840
339 agaacggcaa aatcggagtg agtttgtcca aggacataac cgatgttgcg ggtcgaacgg      900
341 ttaagaaaaa catagcaacg ttgggtccgt tgattcttcc gttaagcgag aaacttcttt      960
343 ttttcgttac cttcatgggc aagaaacttt tcaaagataa aatcaaacat tactacgtcc      1020
345 cggatttcaa acttgcattt gaccattttt gtatacatgc cggaggcaga gccgtgattg      1080
347 atgtgctaga gaagaacctt gccctagcac cgatcgatgt agaggcatca agatcaacgt      1140
349 tcatagatt tggaaacact tcatctagct caatatggta tgagttggca tacatagaag      1200
351 aaaaaggaa gatgaagaaa ggtaataaag tttggcagat tgctttaggg tcagggttta      1260
353 agtgtaacag tgcagtttgg gtggtctctaa acaatgtcaa agcttcgaca aatagtcott      1320
355 ggaacactg catcgacaga taccgggtca aaattgattc tgattcaggt aagtcagaga      1380
357 ctcgtgtcca aaacggtcgg tctaataaaa cgatgtttgc tctctttcgt ttctttttat      1440
359 ttgttataat aatttgatgg ctacgatgtt tctcttggtt gttatgaata aagaatgcaa      1500
361 tgggtttcta gtatttgatt gttttacatg tatgtatctc ttattttacat gaaattttta      1560
363 aacgcctaaa aaaaaaacg gaattccg                                     1588
366 <210> SEQ ID NO: 18
367 <211> LENGTH: 1069
368 <212> TYPE: DNA
369 <213> ORGANISM: Artificial sequence
371 <220> FEATURE:
372 <221> NAME/KEY: promoter
373 <222> LOCATION: (1)..(1069)
374 <223> OTHER INFORMATION: transcriptional regulatory region
375 <400> SEQUENCE: 18
378 cagcttaacc ggtaaaattg gcctgtacat atatttacca ctgagtaaag acatcagtta      60
380 atgatttggt gttactcaat tgggctaagt gtattattat atgtgttgta tataataaag      120
382 gtgaacgta aatttactaa gaatgtgttt ttccaatgtg attgctcttt gccctcttag      180
384 gtttgaatcc tactcgagaa gactaatttt aatttactgg caaaaataga aatcaattta      240
386 taagtgttta aacaaatcga tggataaact gattagtgat cactcttagg ttttgatcca      300
388 actcgagtat tgagtattga acgctttttt taaataaaat cttgattttt aaattgggtt      360
390 tttagtataa aaagttctta atattttctc tttgttttaa tgggtttggt ttgcatttta      420
392 taagcttaat ttttctaatt taatatttta tctatcatcg tccgtaaagt tttatttggc      480
394 acaaacttgt tttacttttc taccttataa tttgggaact ggttgagtca aagcgtaccg      540

```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

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Input Set : A:\44137.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:55 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3  
L:70 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4  
L:85 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5  
L:100 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6  
L:115 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7  
L:130 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8  
L:145 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9  
L:160 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10  
L:175 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11  
L:190 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12  
L:205 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13  
L:220 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14  
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:632 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23

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L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23